

Avery Dennison® W-6100
High Intensity Grade Reflective Sheeting
Pre-Striped Barricade
Pressure Sensitive Adhesive for Plastic

Data Bulletin # W-6100

Revised 10/2003

Description:

Avery Dennison® W-6100 High Intensity Grade Pre-Striped Reflective sheeting for barricades is a high-quality, durable, micro-prismatic retroreflective material. This reflective sheeting is designed specifically for use on most properly prepared plastic surfaces used for traffic control devices. Meets all applicable requirements for Type III retroreflective sheeting as set forth in ASTM D 4956.

Construction:

Face Film:	High gloss with 4" or 6" diagonal stripes
Adhesive	Permanent Pressure Sensitive (Class 1).
Liner:	Poly liner

Photometric Performance:

Type III values per ASTM D 4956. Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²)

Observation Angle	Entrance Angle	White	Orange
0.2°	-4°	250	100
	30°	150	60
0.5°	-4°	95	30
	30	65	25

Colors & Specification Limits (Daytime)^A:

Color	1		2		3		4		Luminance (Y%)	
	x	y	x	y	x	y	x	y	Min	Max
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	27	--
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	14	30

^AThe four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with Standard Illuminant D65.

Other Specifications:

Consult your Avery Dennison Representative for information concerning additional world-wide specifications.

Avery Dennison® W-6100 continued...

Physical Properties:

Outdoor Durability	Avery Dennison W-6100 sheeting has a 3 year durability when properly processed and applied.
Minimum Surface & Ambient Air Application Temperature	65°F (18°C) when applied with a squeeze roll applicator.
Application Surface	Flat plastic surfaces only. High density polyethylene (HDPE) is preferred. Flame treating the plastic surface prior to application is recommended. Always pretest your specific substrate prior to application. Note: Wet method of application is not recommended for W-6100 reflective sheeting.
Service Temperature Range	-40°F to 180°F (-40°C to 82°C)
Typical Film Caliper (w/adhesive)	18 to 19 mils
Shelf Life	One year when stored at the following temperature and conditions 68° - 77°F (20° - 25°C) and 50% \pm 5% \pm R.H.
Other Tests:	W-6100 meets all other requirements set forth in ASTM D 4956 including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering.

Application & Conversion Information:

The following Avery Dennison literature will provide complete information to the user for proper application, storage, and other requirements and is available from your Avery Dennison representative, from the Avery Dennison web-site www.reflectives.averydennison.com, or on request:

Instructional Bulletins:	
Sheeting Care & Handling	#8.00
Substrate Requirements	#8.01
Application Techniques for PS Sheeting	#8.10
Printing	Not designed For printing applications

Stripe Pattern:	
W-6142	4 inch left, 45° diagonal stripes
W-6143	4 inch right, 45° diagonal stripes
W-6144	6 inch left, 45° diagonal stripes
W-6145	6 inch right, 45° diagonal stripes

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Warranty:

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Avery Dennison , 6565 W. Howard, Niles, IL 60714, USA, 1-800-327-5917, www.reflectives.averydennison.com

W-6100 is protected by the following US patents: 4,460,449; 4,633,567; 5,156,863; 4,486,363; 4,601,861; 5,213,872; 5,310,436; 5,930,041